



9K33 Osa - SA-8 GECKO

Complex 9K33 "Osa", missile 9M33 - SA-8A GECKO mod.1

Complex 9K33M2 "Osa-AK", missile 9M33M2 - SA-8B GECKO mod.2

Complex 9K33M3 "Osa-AKM", missile 9M33M3 - SA-8B GECKO mod.2

Self-propelled autonomous air defense missile system for combat formations of motorized rifle divisions. The lead developer of the Ellipsoid air defense missile system (the name of the air defense missile system at the R&D stage) was NII-20 GKRE, chief designer M.M. Kosichkin (since 1964 it was renamed NIEMI MRP, chief designer V.P. Efremov, deputy - I.M. Drize, later renamed NPO Antey). R&D was started by the decree of the USSR Council of Ministers of October 27, 1960 by the Design Bureau of Plant No. 82 of the Moscow City Council of National Economy (Tushino Machine-Building Plant, director A.V. Potopalov). By the decree of the Council of Ministers of September 7, 1964, development of the missile was transferred to OKB-2 GKAT, chief designer Grushin (later - MKB Fakel). The system was manufactured by the Izhevsk Electromechanical Plant from 1966 to 1988. The missiles were manufactured at the Kirov Machine-Building Plant named after the XX Party Congress of the MAP. Factory tests at the Emba test site were conducted in March-June 1970. State tests (head of the commission - M.M. Savelyev) - July 1970 - February 1971. The Osa air defense missile system was accepted into service by the decree of the USSR Council of Ministers dated 04.10.1971. Appearance in the troops (according to Western data) - 1973. At the same time, a naval version, the Osa -M, was developed and accepted into service based on the Osa air defense missile system.



Launches of the 9K33M3 "Osa-AKM" air defense missile system of the Syrian armed forces, photo probably from 2012-2013 ([source](#)).

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 - Armored vehicles
 - Surface-to-surface ballistic
 - Surface-to-surface cruise r
 - Air defense systems
 - Object air defense
 - Military air defense
 - Man-portable air defens
 - Anti-missile systems
 - Land-based ATGMs
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Combat vehicle SAM 9K33 "Osa" (Information system " [Rocket technology.](#) ")

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5YaGG, B-758 missile

DATA FOR 1997 (in progress)

5YaGG complex, V-758 / GGD missile



Experimental rocket. Developed in 1964-65 in OKB-2 MAP (now - MKB "Fakel") under the supervision of P.D. Grushin. The main feature of the rocket is the 2nd stage consisting of a package of 4 SPVRD RD-046 (5D27) developed in OKB-670 (working project - December 1965). The rocket was tested in 1965-1966 (5 launches). Further development was discontinued.

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Rocket B-757/17D

DATA FOR 1997 (in progress)

Missile V-757 / 17D



Experimental missile for S-75 SAM system . It was developed under the name V-757 by the decree of the USSR Council of Ministers (June 1958) in KB-1 (now - NPO Almaz) on the basis of the serial missile V-755 . In order to create a new missile, the experimental missile 17D was developed and tested in OKB-2 (MKB Fakel). The first mock-up samples were built in late 1959. The first launch - 23.01.1960. The end of testing of the missile 17D - summer 1962.

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Complex 2K11 Krug - SA-4 GANEF

DATA FOR 1997 (in progress)

The 2K11 Krug complex, the 3M8, 3M8M, 3M8M1, 3M8M2 missile - SA-4 GANEF



Anti-aircraft missile system for the air defense of ground forces. It was created according to the decree of the USSR Council of Ministers No. 188-88 of 13.02.1958 in OKB-8 GKAT (chief designer L.V. Lyulyev) under the supervision of P.D. Grushin, V. Efremov and I. Drize in the NPO Antey. In service since 1964.

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Complex S-125 - SA-3 GOA

DATA FOR 1997 (in progress)

Complex S-125 "Neva", missile 5B27 (5B24) - SA-3A GOA

Complex S-125M "Pechora" - SA-3B GOA

Complex S-125M1A - SA-3C GOA



Anti-aircraft missile system of the air defense. Developed in the MKB "Fakel". The warhead was developed in NII-6 (now - Central Research Institute of Chemical Engineering) under the supervision of Yu. Lazarev. R & D since March 1956. Tests - 1960. State tests and acceptance into service - March 1961. Entered into combat air defense units - since 1964 (missile 5V24, for example).

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Dal - SA-5 GRIFFON

DATA FOR 1997 (correction required!)
The Dal complex, the 400 missile - SA-5 GRIFFON
★

Multi-channel universal air defense system with missile defense capabilities. The missile was created in OKB-301 of S.A. Lavochkin for the Leningrad air defense system. R & D of the complex since 1955. In April 1957, a preliminary design of the missile was released. By August 1957, the design was completed. Testing began in late 1958-1959. Full-scale testing of the complex in full force began in January 1962 (during the launches, not a single Il-28 target was shot down due to equipment failures). The tests took place at the Sary-Shagan test site. All work was stopped in December 1962 due to the disbandment of OKB-301 and the successful testing of the V-1000 missiles . On November 7, 1963, the rocket was shown for the first time at the Parade on Red Square in Moscow.

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